

### *Amendments to the Specification*

- Please modify paragraph [0006], section (3) as follows:

(3) Exchange coupling of the SUL to an Antiferromagnet. This approach relies on ~~antiferromagnetic~~ antiferromagnetic interactions rather than ferromagnetic interactions to pin the SUL in the radial direction. The antiferromagnet, e.g. IrMn is again oriented in the radial direction by applying a field during film growth, e.g. sputtering.